

# GE Transportation

Vital monitoring of switches and other devices in dark territory continues to be a challenge for North American railroads. The Switch Guard answers that challenge.

Communication is accomplished via RP2000 protocol with more than thirty years of proven reliability. GE - Transportation has upgraded this protocol to be event driven (RP2000 Event Driven). A rapid (set by office, but likely five to ten seconds) and a standby (every minute or so) mode may be set at the office. The unit may be controlled from the office between the rapid and standby modes with the click of a mouse or flip of a switch, corresponding to the office software utilized. With serial and Ethernet communication capabilities and radio selection independent of the controller, the Switch Guard is flexible for any customer installation and circuit controller.

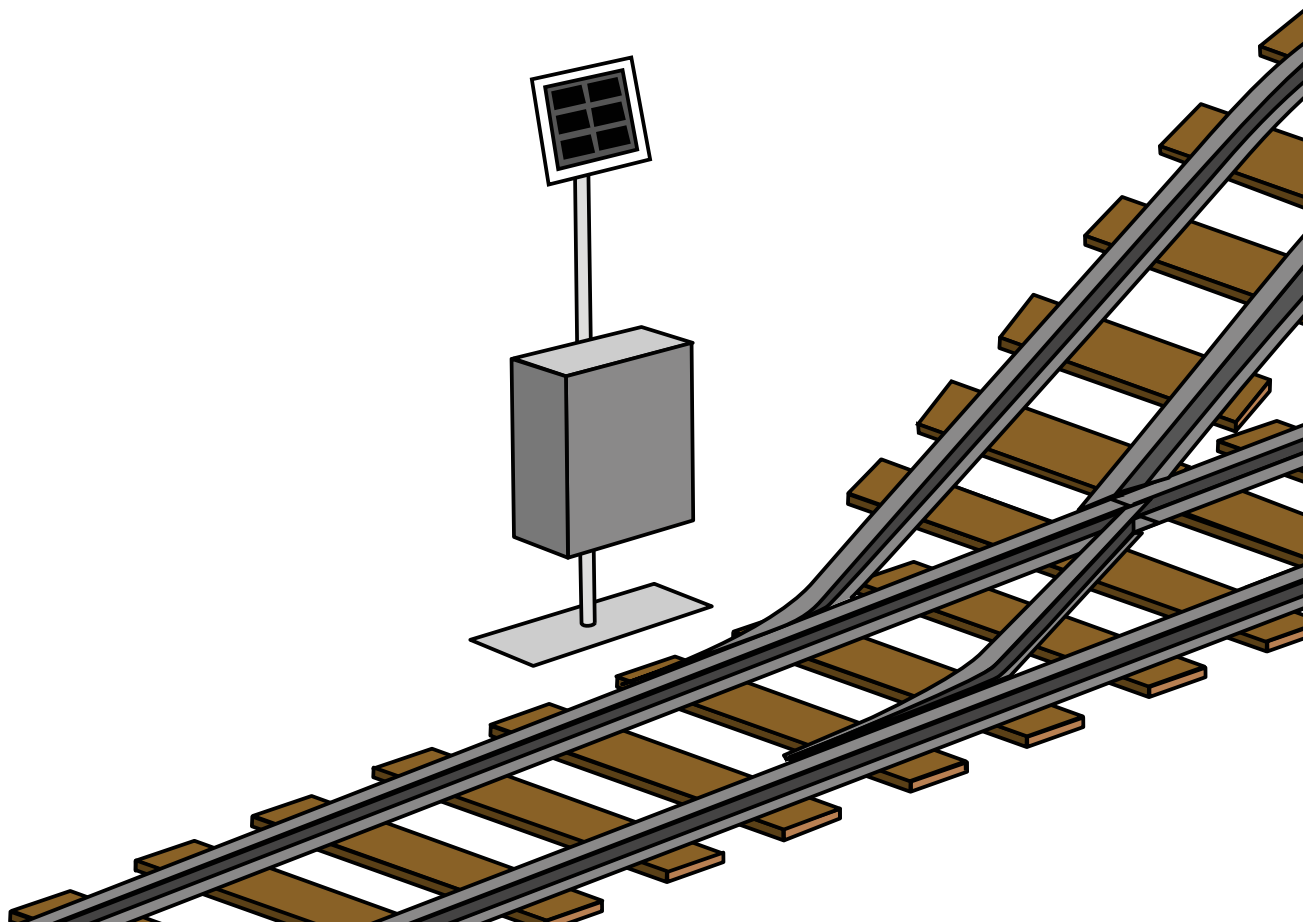
The Switch Guard's main function is to monitor switches in dark territory. Additional applications include approach signals to switch locations, self-restoring of power switches, and other practically limitless opportunities.

Built on the versatile ElectroLogIXS platform, Switch Guard is a modular step to signaled track as well as an option for ITCS and other GPS signaling solutions.

Product availability is anticipated in August 2006, with Beta units available earlier upon request. Depending upon the desired configuration, the Switch Guard may be available at an earlier date.

## Switch Guard

Vital Switch Monitor



## Recording and Diagnostics

Switch Guard utilizes the built-in recorder of the ElectroLogIXS VLC that logs up to 440 elements per time-stamped vital or non-vital event, as well as changes to system configuration and error messages. All recorded events can be printed both track side and in the office. Troubleshooting is simplified. Fault messages are flashed on the CDU display to pinpoint the fault condition and lead maintenance personnel directly to corrective action, both inside and external to the equipment.

Visit us online at  
[www.getransportation.com](http://www.getransportation.com)

## Specifications

### Communication Interface

Ethernet/IP communication  
Serial to radio (RS232, 422, or 485)  
Radio selection independent of controller

### RP2000 Vital Protocol

Largest installed base protocol  
Flow control and event driven

### EPROM on Backplane

Application on this removable PROM  
Change out VPM, I/O, etc., while  
retaining local application-specific  
information on site

### Solar Application Potential

#### Vital Inputs/Outputs

8 inputs and 6 outputs  
4 inputs and 4 outputs

#### Operating Voltage

9.5 to 16.5 VDC



imagination at work